

"Quality Improvement through Quality Data"

User Guide for the 2015 ACS NSQIP Participant Use Data File (PUF)

American College of Surgeons National Surgical Quality Improvement Program

> Revised Version October 2016



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Data Update

Initially, in October 2016, the 2015 PUF datasets were issued with certain inconsistencies that were subsequently identified and corrected in revised datasets. These inconsistencies involved the following data fields:

- 1. Height and Weight in the Adult PUF
- 2. C. diff (NOTHCDIFF, OTHCDIFF) in the Adult PUF

Please make certain that in all research efforts you are using the most recent release of the PUF for any period.

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1. Introduction

This document is designed to accompany the 2015 Participant Use Data File (PUF) available for download on the American College of Surgeons National Surgical Quality Improvement Program (ACS NSQIP) website (<u>www.facs.org/quality-programs/acs-nsqip</u>). The sections contained herein will provide the user with information on how to request the PUF, the contents of the data files, the data collection background, the inclusion and exclusion criteria for cases and hospitals, the data limitations, and the data point definitions and descriptions.

This user guide applies specifically to the 2015 PUF. Hospitals utilizing the PUF from a different year should refer to the user guide specifically tailored to that particular data set.

2. Data Request Process

An individual who has an official appointment at a fully enrolled site and wants to obtain a copy of the ACS NSQIP PUF can do so by visiting <u>www.facs.org/quality-programs/acs-nsqip</u> and following the steps listed below:

- 1. From the ACS NSQIP main page (<u>www.facs.org/quality-programs/acs-nsqip</u>) the requestor can scroll down to the "Quick Links" box on the left side. Within that box you can click on the "Participant Use Data File" link. This will take you to the PUF information and request page.
- 2. Following a brief introduction and explanation of the various PUFs, the requestor can click on "Request Data Set."
- 3. This will take the requestor to the Data Use Agreement. This is a 3-page document that implements the data protections of the Health Insurance Portability and Accountability Act of 1996 (HIPAA) and the ACS NSQIP Hospital Participation Agreement. Delivery of the PUF is contingent on agreement to the terms and conditions specified within the Data Use Agreement. You can read the Data Use Agreement from this page or download the 3-page document. The requestor is then required to type in their first and last name and click on "Request Data File." By clicking on "Request Data File" the requestor agrees to the terms and conditions of the Data Use Agreement.
- 4. Requestors will then be required to complete a brief online form to provide ACS with basic information about themselves, including the participating hospital in which they are currently employed and in what capacity, as well as how the requestor plans on using the PUF data. Once all of the required fields are completed, the requestor clicks "Submit."

- 5. ACS NSQIP staff will review the request in a timely manner. Program contacts at participating sites will be contacted at this time to confirm the requestor's affiliation with the hospital and confirm internal approval of the PUF request.
- 6. Following receipt and confirmation of the information submitted, an email will be sent to the requestor containing a username and password along with the URL to download the data. The web link will be active from the time of the email for 10 full days (240 hours).
- 7. The file will be available in three different formats (Text, SPSS, SAS) and depending on the connection speed should take between 5 and 30 minutes to download.
- 8. The requestor may be contacted to confirm receipt of the data file and allow for feedback on the delivery mechanism, data points contained, and data file format.

3. File Description

Each summer/fall a PUF will be made available for the previous calendar year's data. The PUF is available in one of three different formats - Text, SAS, and SPSS. In 2008, we provided an additional file that contains SAS and SPSS codes for constructing RACE variable that was available in previous years. The 2015 file contains 273 variables for each case, and a variable-by-variable description is provided starting on page 13.

File Name	Туре	Uncompressed	Description
		File Size	
	tab		Contains 273 HIPAA
ACS_NSQIP_PUF15_v2.txt	delimited	1.4 GB	compliant variables
	TXT file		on 885,502 cases
			submitted from 603
			sites in 2015.
	SAS 9.2		Same information as
ACS_NSQIP_PUF15_v2.sas7bdat	data file	5.1 GB	stated above in TXT
			data format.
	SPSS 16.0		Same information as
ACS_NSQIP_PUF15_v2.sav	data file	2.9 GB	stated above in TXT
			and SAS data format.
Construct_RACE_Codes.txt	Notepad	3KB	Contains SAS and
	file		SPSS codes for
			constructing RACE
			variable that was
			available in 2005,
			2006 and 2007.

A brief description of the different formats follows:

4. Data Variable Updates

There are several changes to the "Data Variables" list beginning on Page 13 of this document.

The "Variable Definition" column (as it appeared in the PUF User Guides from 2005-2014) has been removed. It has been replaced by a column titled: "Search Term in Chapter 4…"

Beginning with this PUF, abbreviated definitions have been removed from the Variable Definition field. So that investigators will have ready access to complete and authoritative variable definitions (rather than past definitions which may be incomplete and potentially misleading with respect to nuanced clinical features of importance to the investigator), the "Search Term in Chapter 4..." field will now contain a search term that will locate the complete definition in Chapter 4 of the "ACS NSQIP Operations Manual" - the authoritative variable definition reference manual used by SCRs. Please be aware that Chapter 4 definitions are year specific, though dramatic changes are rare.

Variables names have been reconciled so that you can copy the entire text within an individual cell from the column titled "Search Term in Chapter 4…" in the User Guide, and paste it into a search field (you can create a search field by simultaneously hitting Ctrl and F on your keyboard) in Chapter 4. Once the text is copied into the search field and enter is hit, you will see the variable definition and other information pertinent to that particular variable.

To support this new process, investigators receiving the PUF will have the opportunity to download a Chapter 4 corresponding to the specific PUF year (beginning with data for 2015). Appropriate definitions will continue to be provided in the "Search Term in Chapter 4..." field for those variables that are constructed specifically for the PUF and do not exist in Chapter 4.

Chapter 4 will be made available to you for download with the rest of your requested PUF files or by contacting your hospital's Surgical Clinical Reviewer (SCR). Data Use Agreements will now apply to the use and distribution of Chapter 4, as well as PUF data itself.

A new variable, "PUFYEAR" has been added to the dataset. This variable will allow you to identify the appropriate Chapter 4 for data that has been merged across several years.

In prior years we have retained data fields for historical variables that are no longer collected and inserted missing values. Beginning this year, we are dropping all variables that are not currently collected. Thus, the number of variables included in the Essential PUF is fewer this year than in past years. Also, because the position of data fields is no longer consistent across years, it will no longer be possible to join data across years by merely concatenating files. Files will need to be merged by variable name using appropriate statistical software.

5. Data Collection Background and Data Quality

The ACS NSQIP collects data on over 150 variables, including preoperative risk factors, intraoperative variables, and 30-day postoperative mortality and morbidity outcomes for patients undergoing major surgical procedures in both the inpatient and outpatient setting. A site's trained and certified Surgical Clinical Reviewer (SCR) captures these data using a variety of methods including medical chart abstraction.

Required data variables are entered via web-based data collection to the ACS NSQIP website. Portions of the data may be automatically populated by a software program that was developed to extract data from the participating hospital's existing information systems. Requestors should contact the SCR(s) at their hospital for detailed information on how the hospital collects its ACS NSQIP data.

To ensure the data collected are of the highest quality, the ACS NSQIP has developed a host of different training mechanisms for the SCRs and conducts an Inter-Rater Reliability (IRR) Audit of selected participating sites. In addition to an initial web-based training program, the ACS NSQIP requires SCRs to complete a series of web-based training modules followed by a certification exam that must be retaken annually. The modules and certification exam focus on the program, processes, and analysis; preoperative, intraoperative, and postoperative definitions; and case studies. These modules are complemented by a growing online decision support system that ensures the SCRs have the knowledge and resources available to collect high-quality data.

The IRR Audit is a fundamental tool of ACS NSQIP to assess the quality of the data collected at participating sites. The process involves the review of multiple charts, some of which are selected randomly and others selected based on criteria designed to identify potential reporting errors. For example, cases with five or more preoperative risk factors and no reported mortality or morbidity or cases with two or fewer preoperative risk factors and reported mortality or morbidity will be selected for chart review. Operating room logs are also audited to ensure correct sampling of cases.

The combined results of the audits completed to date revealed an overall disagreement rate of approximately 2% for all assessed program variables. The ACS NSQIP has determined that an IRR Audit disagreement rate of 5% or less is acceptable. Sites that have higher than a 5% disagreement rate are not provided a hospital odds ratio in the ACS NSQIP Semiannual Report and may be required to undergo an additional audit following training and education recommendations from the ACS NSQIP.

6. Sampling Process and Case Exclusion Criteria

Sites participating in the ACS NSQIP can do so in a variety of options that cover general/vascular surgery, multispecialty surgery, or procedure targeted (reported separately). Each participation option includes a systematic sampling process that is described below.

Systematic Sampling Process

Larger institutions normally experience a significant volume of surgical cases. This presents the problem of managing an overwhelming workload. In order to prevent bias in choosing cases for assessment, a systematic sampling process was developed. An important tool to utilize while performing the systematic sampling process is the 8-Day Cycle Schedule. The 8-day cycle works as follows: If the first 'cycle' begins on a Monday, it continues through to include the following Monday (an 8-day period of time). The next cycle begins on Tuesday and continues through to include the following Tuesday. And so on. This process assures that over time cases have equal chances of being selected from each day of the week.

Note: There are some exceptions to the systematic sampling inclusion. Hospitals participating in the Small & Rural option will collect all ACS NSQIP®-eligible cases at their hospital. Hospitals participating in Essentials (Multispecialty only) or in the Procedure Targeted (General/Vascular OR Multispecialty) options are provided with sampling requirements specific to their site and may opt to collect more than the specified sampling requirements if resources allow.

Case Exclusion Criteria

The following exclusion criteria were applied to cases collected in 2015. For the current inclusion/exclusion criteria please contact the ACS NSQIP Clinical Support Team at clinicalsupport@acsnsqip.org.

- Minor Cases (all cases that are not considered Major)
- Patients under the age of 18 years.
- Patient for the case in question has been assigned with an ASA score of 6 (brain-death organ donors).
- Cases involving Hyperthermic Intraperitoneal Chemotherapy (HIPEC)
- Trauma cases: Any patient that meets the trauma exclusion criteria will be excluded.
- Transplant cases: For any patient who is admitted to the hospital and has a transplant procedure, that transplant procedure and any additional surgical procedure during the transplant hospitalization will be excluded.

- Cases beyond three per cycle for limited cases: For each program option (excluding Small & Rural), only a maximum of three cases from each of the below procedures should be included per 8-day cycle. Any case beyond the case limit of three for any of these procedures should be excluded.
 - Inguinal Herniorrhaphies
 - o Breast Lumpectomies
 - Laparoscopic Cholecystectomies
 - o TURPs and/or TURBTs

(This limit does not apply for Procedure Targeted sites that are targeting TURPs.)

- Cases beyond the required number per your site's contract for each cycle.
- A return to the operating room that is related to an occurrence or complication of a prior procedure
- Multiple NSQIP assessed cases within 30 days: Any patient who already has a NSQIPassessed procedure entered within the previous 30 days at your site should be excluded. Only one NSQIP®-assessed procedure can be abstracted patient, per 30 days, for each

Hospital Exclusion Criteria

In addition to the case inclusion/exclusion criteria, hospital inclusion/exclusion criteria are also imposed. To maintain the highest level of data quality, only cases included in the odds ratio analysis are included in the PUF. These cases go through an additional level of scrutiny as they are passed from data collection to statistical analysis. A site is excluded from the odds ratio calculations and the PUF if it fits any of the following criteria:

- 30-day follow-up rate is under 80%
- Inter-Rater Reliability Audit disagreement rate is over 5%

Measures Sites Excluded

Due to the small number of "Measures" sites enrolled in ACS NSQIP, cases from "Measures" sites have been removed from the PUF dataset in order to protect against possible identification of those sites and cases.

7. Data Limitations

While every effort has been made to make the PUF as complete as possible, the data do have certain limitations. Some of these limitations have been deliberately introduced to safeguard the privacy of patients (such as removal of absolute dates). Other limitations are due to resource constraints (such as the collection of generic surgical variables only, except for the procedure

targeted option, which is reported separately). The following items represent the most salient limitations of the data:

- Because such a wide variety of operations are tracked, the variables are necessarily generic in nature. This limitation may pose difficulties for researchers attempting indepth research on specific conditions or operations. However, surgical Targeted PUF datasets are now available which address target-specific predictors and outcomes for many types of operations.
- While the sex and race distributions are reasonably representative of the national surgery patient population, only patients over the age of 18 are available for assessment, so the age distribution is somewhat truncated. Patients over the age of 90 are also grouped into a 90+ category to prevent cases from being identifiable due to unique data.
- Patients are followed after surgery for 30 days. Complications or death after that period are not included. Hospitals may follow patients longer than 30 days, but this data is not reported by NSQIP.
- In order to comply with HIPAA requirements, all absolute dates have been removed. The most critical of these is the date of surgery, which has been reduced to year of surgery only. Some dates (hospital entry, dates of laboratory tests, and so on) have been recoded into durations e.g. Date of Admission and Date of Discharge is recoded into Hospital Length of Stay.
- In order to comply with the Hospital Participation Agreement (HPA) that is agreed to between the ACS and participating sites, facility identifiers as well as geographic information regarding the case have been removed. The HPA stipulates that the ACS does not identify participating sites. Site identification could be possible even with blinded identifiers through advanced statistics. A stipulation of access to the PUF is completion of the Data Use Agreement that strictly prohibits attempts to identify hospitals, health care providers, or patients.
- While many risk factors are tracked, preventative measures are not recorded which can lead to an underestimation of the risk of certain conditions when such measures are routinely taken before surgery.
- The data are submitted from hospitals that are participating in the ACS NSQIP and do not represent a statistically valid nationally representative sample.

• Most patients do not receive all possible preoperative laboratory tests, so some of these variables have a high percentage of missing values (15% to 45%, depending on the tests). This high percentage of missing data can make it problematic to use these variables in a traditional logistic regression model as well as in many other types of analysis.

This list may not include all data limitations and additional limitations may apply in future versions of the data.

Graft failure, Coma, and Peripheral Nerve Injury Data Update

As first identified and reported in December of 2014, we have identified a problem in reported results for three outcome variables that existed in the Classic program, but did not exist in Essentials, between 2011 and 2013.

As it is mandatory to report outcome variables, we have historically converted the absence of an affirmative response (i.e., missing data) to "No Complication". This otherwise appropriate procedure was mistakenly applied to three outcome variables which were dropped from Essentials beginning in 2011 (Graft failure, Coma, Peripheral Nerve Injury). This logic resulted in "No complication" being assigned to missing data coming from Essential sites where, in fact, no data was being collected for these three outcomes. For the 2013 SAR (when Classic no longer existed) this isn't much of a problem as users would clearly know that something was wrong when 100% of the cases had "No complication" (for 2014 missing values were inserted for these historical outcome variables rather than "No complication"). However for 2011 and 2012, when some sites were Essentials and some Classic, a PUF user would see a strange, precipitous, drop in event rates for these outcomes.

Because of this problem, Graft failure, Coma, and Peripheral Nerve Injury should not be considered accurate for any PUF after 2010.

8. Contact Information

All questions about the User Guide or PUF, as well as comments and suggestions for improvements are welcome and may be directed to Brian Matel, ACS NSQIP Statistical Report Manager, via email at <u>bmatel@facs.org</u>.

9. Frequently Asked Questions

Request Process

- Q: Who has access to this file?
- A: Any individual with an official appointment at a fully participating site will be given access to the file following completion of the Data Use Agreement and a short set of questions that are available on the website.
- Q: Is the file available to individuals from nonparticipating sites?
- A: At this time the data files are only available to individuals with official appointments at fully participating sites.
- Q: I am at a NSQIP-participating site and would like to work on a research project with others from a different site that is not participating. Will I be allowed to do that?
- A: Yes, however, the NSQIP affiliated researcher must be the lead investigator on all PUFbased research projects and is responsible for the PUF dataset, even if forwarded to someone else. The non-participating collaborator must also sign the DUA.
- Q: How do I obtain a copy of this file?
- A: Please see the "Data Request Process" on page 1 of this document for a step-by-step approach on how to do so.

Contents of the Files

- Q: What is in this file?
- A: The file contains Health Insurance Portability and Accountability Act (HIPAA) deidentified data from sites participating in the ACS NSQIP that received risk-adjusted reports in 2015. The variable name, variable label, data definition, and other pertinent information are provided in Section 10: Data Variables and Definitions.
- Q: Are site identifiers included in the database?
- A: At this time we do not provide any geographic or site-specific identification. We took this approach to ensure the privacy of both the participating sites and surgeons.
- Q: Are there surgeon-specific identifiers included in the database?
- A: At this time we do not provide any surgeon-specific information. We took this approach to ensure the privacy of both the participating sites and surgeons.

- Q: Are other PUF data sets available?
- A: 19 other PUF files are available for request / download:

PUF Year	PUF Type	Cases	Sites
2005/2006	Essentials	152,490	121
2007	Essentials	211,407	183
2008	Essentials	271,368	211
2009	Essentials	336,190	237
2010	Essentials	363,431	258
2011	Essentials	442,149	315
2012	Essentials	543,885	374
2013	Essentials	651,940	435
2014	Essentials	750,397	517
2011/2012	Colectomy	16,981	121
2013	Colectomy	21,505	154
2014	Colectomy	25,262	203
2011/2012	Vascular	655	71
2013	Vascular	4,292	83
2014	Vascular	4,029	83
2014	Gynecology	500	19
2014	Hepatectomy	3,064	92
2014	Hysterectomy	19,283	91
2014	Pancreatectomy	5,187	106

- Q: Why does the PUF exclude specific dates?
- A: In order to release the PUF, certain adjustments to the data are required to ensure proper protection of patient information. To meet these requirements, we remove all elements of dates (except quarter of admission and year) for dates directly related to an individual. For more information on the 18 data elements that are required for removal, please visit http://privacyruleandresearch.nih.gov/

or

http://privacyruleandresearch.nih.gov/pdf/HIPAA_Booklet_4-14-2003.pdf.

- Q: I am the Surgeon Champion or Surgical Clinical Reviewer from a site that has records in the PUF and would like to know which specific records are ours.
- A: At this time we do not provide site identification of any cases in the PUF, even selfidentification.

Values in the Data

- Q: For each of the following complications, Pneumonia, On Ventilator > 48 hours, Urinary Tract Infection, and Bleeding Transfusion, one case did not have a known duration from operation to complication. Why is that?
- A: In each of these complications the case had an invalid date which inhibited the calculation of duration. The number of days from operation to complication variable is coded as -99 for these cases.
- Q: What are the probability scores for mortality and morbidity and how often are they calculated?
- A: The probabilities of mortality and morbidity are provided in this database for all surgery cases in 2015. These probabilities are derived using hierarchical regression analysis, but based only on patient-level effects. They represent the probability (0 to 1) that a case will experience a morbidity or mortality event based on pre-existing conditions. These probabilities are calculated every six months for the previous 12 months of data so the algorithm used to generate the predicted values changes over time as does the data used to create the algorithm.
- Q: Which calculated probabilities of mortality and morbidity are supplied in this data set?
- A: The probabilities of mortality and morbidity for all surgical cases used in the riskadjusted analysis in 2015 are provided.
- Q: Why do some of the preoperative lab values have duration from lab to operation, but a value of -99 for the lab value?
- A: The results of the lab tests can be entered manually and thus are susceptible to data entry error. Depending on the preoperative lab variable roughly 1% of the cases had invalid values and these invalid values were set to -99 to simplify analysis. It is also possible that some cases have valid lab values, but are missing duration from lab to operation variable. This discrepancy is also related to a data entry error and the program continues to improve the data collection software to minimize the potential for data entry errors.
- Q: When performing analysis on the five digit CPT codes in the Other and Concurrent variables, how should I interpret those cases with a valid 5 digit CPT code but a CPT description set to NULL?
- A: If the case has a valid five digit CPT code that procedure occurred and should be evaluated as such. The CPT description is a secondary variable and provided for

convenience. In the processing of large amounts of data some descriptions are purposefully or inadvertently removed.

File Formats

- Q: In what file formats are the data available?
- A: The data files are made available in a tab delimited TXT file, an SPSS file, and a SAS file.

				es. It is suggested that they evaluate variable categories across years and combine them in		
ion #	Variable Name	Data	Variable Label	Search Term in Chapter 4	Variable Options at Entry	Comments
		Туре		Notes: 'Variable Name:' needs to be included in Search Term;		
				*Variables not included in Chap 4		
	PUFYEAR	Char		*Year of PUF		
	CaseID	Num	Case Identification Number	Variable Name: Identification Number (IDN)		
	SEX	Char	Gender	Variable Name:Gender	Male; Female	NULL = No Response
	RACE_NEW	Char	New Race	Variable Name:Race	American Indian or Alaska Native	NULL = No Response
					Asian	
					Black or African American	
					Native Hawaiian or Pacific Islander	
					Unknown/Not Reported	
					White	
	ETHNICITY_HISPANIC	Char	Ethnicity Hispanic	Variable Name:Hispanic Ethnicity	Yes; No; Unknown	NULL = No Response
	PRNCPTX		Principal operative procedure CPT code description	Variable Name: Principal operative procedure CPT code description		
	CPT	Char		Variable Name:CPT® (Current Procedural Terminology) Code		
	WORKRVU		Work Relative Value Unit	*Work Relative Value Unit		-99 = No Response
	INOUT	Char	Inpatient/outpatient	Variable Name:In/Out-Patient Status	Outpatient; Inpatient	NULL = No Response
	TRANST	Char	Transfer status	Variable Name:Origin Status	From acute care hospital inpatient	NULL = No Response
					Not transferred (admitted from home)	
					Nursing home - Chronic care - Intermediate care	
					Outside emergency department	
					Transfer from other	
	1				Unknown	
	Age	Char	Age of patient with patients over 89 coded as 90+	Variable Name:Date of Birth		-99 = No Response
	AdmYR	Num	Year of Admission	Variable Name:Hospital Admission Date		-99 = No Response
	OperYR	Num	Year of Operation	Variable Name:Operation Date		-99 = No Response
	DISCHDEST	Char	Discharge Destination	Variable Name: Hospital Discharge Destination	Skilled Care, Not Home	NULL = No Response
				· · · · · · · · · · · · · · · · · · ·	Unskilled Facility Not Home	
					Facility Which was Home	
					Home	
					Separate Acute Care	
					Rehab	
					Expired	
					Unknown	
	ANESTHES	Char	Principal anesthesia technique	Variable Name: Principal Anesthesia Technique	Epidural	NULL = No Response
					General	
					Local	
					Monitored Anesthesia care (MAC) / IV Sedation	
					None	
					Other	
					Regional	
					Spinal	
					Unknown	
	SURGSPEC	Chor	Surgical Specialty	Variable Name:Surgical Specialty	Cardiac Surgery	
	SURGSFEC	Griai	Surgical Specially	Valiable Name.Surgical Specially	General Surgery	
					Gynecology	
					Neurosurgery	_
					Orthopedics	_
					Otolaryngology (ENT)	_
					Plastics	
					Thoracic	_
					Urology	
					Vascular	
	FLECTOURC	01.1	Elective Surgery	Variable Name-Elective Overant, Datient Overfox Event Units	Interventional Radiologist	NULL NO DOCTO
	ELECTSURG		Elective Surgery	Variable Name:Elective Surgery, Patient Coming From Home	Yes; No; Unknown	NULL = No Response
	HEIGHT	Num	Height in inches	Variable Name:Height		-99=No Response
						Units converted to inche
	WEIGHT	Num	Weight in lbs	Variable Name:weight		-99=No Response
						Units converted to lbs
	DIABETES	Char	Diabetes mellitus with oral agents or insulin	Variable Name: Diabetes Mellitus Requiring Therapy with Non-Insulin Agents or Insulin	INSULIN; NO; NON-INSULIN	NULL = No Response
	SMOKE		Current smoker within one year	Variable Name:Current Smoker within One Year	Yes; No	NULL = No Response
	DYSPNEA		Dyspnea	Variable Name:Dyspnea	AT REST; MODERATE EXERTION; No	NULL = No Response
	FNSTATUS2	Char	Functional health status Prior to Surgery	Variable Name:Functional Health Status	Independent; Partially Dependent; Totally Dependent; Unknown	NULL = No Response
	VENTILAT	Char		Variable Name:Ventilator Dependent	Yes; No	NULL = No Response
	HXCOPD	Char	History of severe COPD	Variable Name:COPD (Severe)	Yes; No	NULL = No Response
	ASCITES	Char	Ascites	Variable Name: Ascites within 30 Days Prior to Surgery	Yes; No	NULL=No Response
	HXCHF	Char	Congestive heart failure (CHF) in 30 days before surgery	Variable Name:Congestive Heart Failure within 30 Days Prior to Surgery	Yes; No	NULL = No Response

Position #	Variable Name	Data	Variable Label	Search Term in Chapter 4 Notes: 'Variable Name:' needs to be included in Search Term;	Variable Options at Entry	Comments
		Туре		*Variables not included in Chap 4		
28	HYPERMED	Char	Hypertension requiring medication	Variables Not included in Chap 4 Variable Name:Hypertension Requiring Medication	Yes: No	NULL = No Response
29	RENAFAIL	Char	Acute renal failure (pre-op)	Variable Name: Acute Renal Failure	Yes; No	NULL = No Response
					,	
30	DIALYSIS	Char	Currently on dialysis (pre-op)	Variable Name:Currently Requiring or On Dialysis	Yes; No	NULL = No Response
31	DISCANCR		Disseminated cancer	Variable Name:Disseminated cancer	Yes; No	NULL = No Response
32	WNDINF		Open wound/wound infection	Variable Name: Open Wound (with or without Infection)	Yes; No	NULL = No Response
33	STEROID		Steroid use for chronic condition	Variable Name:Steroid/Immunosuppressant Use for a Chronic Condition	Yes; No	NULL = No Response
34	WTLOSS		>10% loss body weight in last 6 months	Variable Name: > 10% Loss of Body Weight in the 6 Months Prior to Surgery	Yes; No	NULL = No Response
35	BLEEDDIS		Bleeding disorders	Variable Name:Bleeding disorders	Yes; No	NULL = No Response
36	TRANSFUS	Char	Preop Transfusion of >= 1 unit of whole/packed RBCs in 72 hours prior surgery		Yes; No	NULL = No Response
37	PRSEPIS		Systemic Sepsis	Variable Name:Sepsis within 48 Hours Prior to Surgery	SIRS; Sepsis; Septic Shock; None	NULL=No Response
38	DPRNA	Num	Days from Na Preoperative Labs to Operation	*Days from Na Preoperative Labs to Operation		-99 = Lab value not obtained or No Response
39	DPRBUN	Num	Days from BUN Preoperative Labs to Operation	*Days from BUN Preoperative Labs to Operation		-99 = Lab value not obtained or No Response
40	DPRCREAT	Num	Days from Creatinine Preoperative Labs to Operation	*Days from Creatinine Preoperative Labs to Operation		-99 = Lab value not obtained or No Response
41	DPRALBUM	Num	Days from Albumin Preoperative Labs to Operation	*Days from Albumin Preoperative Labs to Operation		-99 = Lab value not obtained or No Response
42	DPRBILI	Num	Days from Bilirubin Preoperative Labs to Operation	*Days from Bilirubin Preoperative Labs to Operation		-99 = Lab value not obtained or No Response
43	DPRSGOT	Num	Days from SGOT Preoperative Labs to Operation	*Days from SGOT Preoperative Labs to Operation		-99 = Lab value not obtained or No
44	DPRALKPH	Num	Days from ALKPHOS Preoperative Labs to Operation	*Days from ALKPHOS Preoperative Labs to Operation		-99 = Lab value not obtained or No
45	DPRWBC	Num	Days from WBC Preoperative Labs to Operation	*Days from WBC Preoperative Labs to Operation		-99 = Lab value not obtained or No
46	DPRHCT	Num	Days from HCT Preoperative Labs to Operation	*Days from HCT Preoperative Labs to Operation		-99 = Lab value not obtained or No
47	DPRPLATE	Num	Days from PlateCount Preoperative Labs to Operation	*Days from PlateCount Preoperative Labs to Operation		Response -99 = Lab value not obtained or No
48	DPRPTT		Days from PTT Preoperative Labs to Operation	*Days from PTT Preoperative Labs to Operation		Response -99 = Lab value not obtained or No
49	DPRPT		Days from PT Preoperative Labs to Operation	*Days from PT Preoperative Labs to Operation		-99 = Lab value not obtained or No
50						Response
50	DPRINR		Days from INR Preoperative Labs to Operation	*Days from INR Preoperative Labs to Operation		-99 = Lab value not obtained or No Response
51	PRSODM		Pre-operative serum sodium	Variable Name:Preoperative Lab Value Information		-99 = Lab value not obtained or No Response
52	PRBUN	Num	Pre-operative BUN	Variable Name:Preoperative Lab Value Information		-99 = Lab value not obtained or No Response
53	PRCREAT	Num	Pre-operative serum creatinine	Variable Name:Preoperative Lab Value Information		-99 = Lab value not obtained or No Response
54	PRALBUM	Num	Pre-operative serum albumin	Variable Name: Preoperative Lab Value Information		-99 = Lab value not obtained or No Response
55	PRBILI	Num	Pre-operative total bilirubin	Variable Name: Preoperative Lab Value Information		-99 = Lab value not obtained or No Response
56	PRSGOT	Num	Pre-operative SGOT	Variable Name: Preoperative Lab Value Information		-99 = Lab value not obtained or No Response
57	PRALKPH	Num	Pre-operative alkaline phosphatase	Variable Name:Preoperative Lab Value Information		-99 = Lab value not obtained or No Response
58	PRWBC	Num	Pre-operative WBC	Variable Name:Preoperative Lab Value Information		-99 = Lab value not obtained or No Response
59	PRHCT	Num	Pre-operative hematocrit	Variable Name:Preoperative Lab Value Information		-99 = Lab value not obtained or No Response
60	PRPLATE	Num	Pre-operative platelet count	Variable Name:Preoperative Lab Value Information		-99 = Lab value not obtained or No
61	PRPTT	Num	Pre-operative PTT	Variable Name:Preoperative Lab Value Information		Response -99 = Lab value not obtained or No
62	PRINR	Num	Pre-operative International Normalized Ratio (INR) of PT values	Variable Name:Preoperative Lab Value Information		-99 = Lab value not obtained or No
63	PRPT	Num	Pre-operative PT	Variable Name: Preoperative Lab Value Information		-99 = Lab value not obtained or No
64	OTHERPROC1	Cho-	Other Procedure 1	Variable Name:Other Procedure		Response NULL = No Procedure
04	OTHERCPT1		Other CPT Code 1	Variable Name:Other Procedure		NULL = No Procedure

Position #	Variable Name	Data	Variable Label	Search Term in Chapter 4	Variable Options at Entry	Comments
		Туре		Notes: 'Variable Name:' needs to be included in Search Term;		
				*Variables not included in Chap 4		
6	OTHERWRVU1	Num	Other Work Relative Value Unit 1	*Other Work Relative Value Unit 1		-99 = No Procedure/No Response
7	OTHERPROC2	Char	Variable Name:Other Procedure 2	Variable Name:Other Procedure		NULL = No Procedure
8	OTHERCPT2	Char	Other CPT Code 2	Variable Name:Other Procedure		NULL = No Procedure
9	OTHERWRVU2	Num	Other Work Relative Value Unit 2	*Other Work Relative Value Unit 2		-99 = No Procedure/No Response
0	OTHERPROC3		Variable Name:Other Procedure 3	Variable Name:Other Procedure		NULL = No Procedure
1	OTHERCPT3	Char		Variable Name:Other Procedure		NULL = No Procedure
2	OTHERWRVU3	Num	Other Work Relative Value Unit 3	*Other Work Relative Value Unit 3		-99 = No Procedure/No Response
3	OTHERPROC4		Variable Name: Other Procedure 4	Variable Name:Other Procedure		NULL = No Procedure
'4	OTHERCPT4		Other CPT Code 4	Variable Name:Other Procedure		NULL = No Procedure
5	OTHERWRVU4	Num	Other Work Relative Value Unit 4	*Other Work Relative Value Unit 4		-99 = No Procedure/No Response
6	OTHERPROC5		Variable Name:Other Procedure 5	Variable Name:Other Procedure		NULL = No Procedure
77	OTHERCPT5		Other CPT Code 5	Variable Name:Other Procedure		NULL = No Procedure
8	OTHERWRVU5	Num	Other Work Relative Value Unit 5	*Other Work Relative Value Unit 5		-99 = No Procedure/No Response
79	OTHERPROC6	Char	Variable Name:Other Procedure 6	Variable Name:Other Procedure		NULL = No Procedure
80	OTHERCPT6	Char		Variable Name:Other Procedure		NULL = No Procedure
31	OTHERWRVU6	Num	Other Work Relative Value Unit 6	*Other Work Relative Value Unit 6		-99 = No Procedure/No Response
32	OTHERPROC7		Variable Name:Other Procedure 7	Variable Name:Other Procedure		NULL = No Procedure
33	OTHERCPT7	Char	Other Variable Name: Other Procedure 7	Variable Name:Other Procedure		NULL = No Procedure
34	OTHERWRVU7	Num	Other Work Relative Value Unit 7	*Other Work Relative Value Unit 7		-99 = No Procedure/No Response
35	OTHERPROC8	Char	Variable Name:Other Procedure 8	Variable Name:Other Procedure		NULL = No Procedure
36	OTHERCPT8	Char	Other Variable Name: Other Procedure 8	Variable Name:Other Procedure		NULL = No Procedure
37	OTHERWRVU8	Num	Other Work Relative Value Unit 8	*Other Work Relative Value Unit 8		-99 = No Procedure/No Response
8	OTHERPROC9		Variable Name:Other Procedure 9	Variable Name:Other Procedure		NULL = No Procedure
39	OTHERCPT9	Char		Variable Name:Other Procedure		NULL = No Procedure
90	OTHERWRVU9	Num	Other Work Relative Value Unit 9	*Other Work Relative Value Unit 9		-99 = No Procedure/No Response
91	OTHERPROC10		Variable Name: Other Procedure 10	Variable Name:Other Procedure		NULL = No Procedure
92	OTHERCPT10	Char		Variable Name:Other Procedure		NULL = No Procedure
93	OTHERWRVU10	Num	Other Work Relative Value Unit 10	*Other Work Relative Value Unit 10		-99 = No Procedure/No Response
94	CONCURR1	Char	Concurrent Procedure 1	Variable Name:Concurrent Procedure		NULL = No Procedure
95	CONCPT1	Char		Variable Name:Concurrent Procedure		NULL = No Procedure
96	CONWRVU1	Num	Concurrent Work Relative Value Unit 1	*Concurrent Work Relative Value Unit 1		-99 = No Procedure/No Response
97	CONCURR2		Concurrent Procedure 2	Variable Name:Concurrent Procedure		NULL = No Procedure
98	CONCPT2		Concurrent CPT 2	Variable Name:Concurrent Procedure		NULL = No Procedure
99	CONWRVU2	Num	Concurrent Work Relative Value Unit 2	*Concurrent Work Relative Value Unit 2		-99 = No Procedure/No Response
100	CONCURR3	Char	Concurrent Procedure 3	Variable Name:Concurrent Procedure		NULL = No Procedure
101	CONCPT3	Char		Variable Name:Concurrent Procedure		NULL = No Procedure
02	CONWRVU3	Num	Concurrent Work Relative Value Unit 3	*Concurrent Work Relative Value Unit 3		-99 = No Procedure/No Response
03	CONCURR4	Char	Concurrent Procedure 4	Variable Name:Concurrent Procedure		NULL = No Procedure
104	CONCPT4	Char	Concurrent CPT 4	Variable Name:Concurrent Procedure		NULL = No Procedure
105	CONWRVU4	Num	Concurrent Work Relative Value Unit 4	*Concurrent Work Relative Value Unit 4		-99 = No Procedure/No Response
06	CONCURR5		Concurrent Procedure 5	Variable Name:Concurrent Procedure		NULL = No Procedure
07	CONCPT5		Concurrent CPT 5	Variable Name:Concurrent Procedure		NULL = No Procedure
108	CONWRVU5	Num	Concurrent Work Relative Value Unit 5	*Concurrent Work Relative Value Unit 5		-99 = No Procedure/No Response
109	CONCURR6	Char	Concurrent Procedure 6	Variable Name:Concurrent Procedure		NULL = No Procedure
110	CONCPT6		Concurrent CPT 6	Variable Name:Concurrent Procedure		NULL = No Procedure
111	CONWRVU6	Num	Concurrent Work Relative Value Unit 6	*Concurrent Work Relative Value Unit 6		-99 = No Procedure/No Response
12	CONCURR7	Char	Concurrent Procedure 7	Variable Name:Concurrent Procedure		NULL = No Procedure
113	CONCPT7	Char	Concurrent CPT 7	Variable Name:Concurrent Procedure		NULL = No Procedure
114	CONWRVU7	Num	Concurrent Work Relative Value Unit 7	*Concurrent Work Relative Value Unit 7		-99 = No Procedure/No Response
115	CONCURR8	Char	Concurrent Procedure 8	Variable Name:Concurrent Procedure		NULL = No Procedure

Position #	Variable Name	Data	Variable Label	Search Term in Chapter 4	Variable Options at Entry	Comments
		Туре		Notes: 'Variable Name:' needs to be included in Search Term;		
				*Variables not included in Chap 4		
116	CONCPT8	Char	Concurrent CPT 8	Variable Name:Concurrent Procedure		NULL = No Procedure
117	CONWRVU8	Num	Concurrent Work Relative Value Unit 8	*Concurrent Work Relative Value Unit 8		-99 = No Procedure/No Response
118	CONCURR9	Char	Concurrent Procedure 9	Variable Name:Concurrent Procedure		NULL = No Procedure
119	CONCPT9	Char	Concurrent CPT 9	Variable Name:Concurrent Procedure		NULL = No Procedure
120	CONWRVU9	Num	Concurrent Work Relative Value Unit 9	*Concurrent Work Relative Value Unit 9		-99 = No Procedure/No Response
120	001111100					
121	CONCURR10	Chor	Concurrent Procedure 10	Variable Name:Concurrent Procedure		NULL = No Procedure
121	CONCETTIO	Char		Variable Name:Concurrent Procedure		NULL = No Procedure
122	CONWRVU10		Concurrent Work Relative Value Unit 10	*Concurrent Work Relative Value Unit 10		-99 = No Procedure/No Response
123	CONVIRVOTO	Num	Concurrent work Relative value Unit TU	Concurrent work Relative value Unit TU		-99 = No Procedure/No Response
101	ENERONOV	01			Mara Ma	NULL N. D.
	EMERGNCY	Char	Emergency case	Variable Name:Emergency Case	Yes; No	NULL = No Response
125	WNDCLAS	Char	Wound classification	Variable Name: Wound Classification	1-Clean	NULL = No Response
					2-Clean/Contaminated	
					3-Contaminated	
					4-Dirty/Infected	
126	ASACLAS	Char	ASA classification	Variable Name: ASA Classification	1 -No Disturb	NULL= No Response
					2 -Mild Disturb	
					3 -Severe Disturb	
					4 -Life Threat	
					5 -Moribund	
					None assigned	
127	MORTPROB	Num	Estimated Probability of Mortality	*Probability of mortality is developed for all cases based on a logistic regression analysis		System missing = case was not
				using the patient's preopeartive characteristics as the independent or predictive variables.		included in the logistic regression
				Only cases included in the logistic regression analysis will have the associated probabilities		analysis
				of mortality.		
400	MORBPROB	Nium	Estimated Probability of Morbidity	*Probability of morbidity is developed for all cases based on a logistic regression analysis		Custom mission and una ant
128	MORBPROB	Num	Estimated Probability of Morbidity			System missing = case was not
				using the patient's preopeartive characteristics as the independent or predictive variables. Only cases included in the logistic regression analysis will have the associated probabilities		included in the logistic regression
						analysis
				of morbidity.		
129	OPTIME		Total operation time	*Total operation time in minutes		-99 = No Response
	HDISDT		Hospital discharge Year	Variable Name:Acute Hospital Discharge Date		-99 = No Response
131	YRDEATH	Num	Year of death	Variable Name:Date of Death		-99 = Patient alive at 30 days
						Notes: include death >30days of
						procedure
132	TOTHLOS	Num	Length of total hospital stay	*Length of total hospital stay		
	AdmQtr	Num	Quarter of Admission	Variable Name:Hospital Admission Date	1; 2; 3; 4	-99 = No Response
134	HtoODay	Num	Days from Hospital Admission to Operation	*Days from Hospital Admission to Operation		-99 = No Response
135	NSUPINFEC		Number of Superficial Incisional SSI Occurrences	*Number of Superficial Incisional SSI Occurrences		
	SUPINFEC		Occurrences Superficial surgical site infection	Variable Name:Superficial Incisional SSI	No Complication; Superficial Incisional SSI	
	SSSIPATOS		Superficial Incisional SSI PATOS	Variable Name:Superficial Incisional SSI – PATOS	Yes; No	NULL = No response
	DSUPINFEC		Days from Operation until Superficial Incisional SSI Complication	*Days from Operation until Superficial Incisional SSI Complication	163,110	NOEE = No response
	NWNDINFD		Number of Deep Incisional SSI Occurrences	*Number of Deep Incisional SSI Occurrences		
	WNDINFD		Occurrences Deep Incisional SSI Occurrences	Variable Name:Deep Incisional SSI	Deep Incisional SSI; No Complication	
	DSSIPATOS		Deep Incisional SSI PATOS			NUUL NI STORES
141	DSSIPATOS	Char	Deep Incisional SSI PATOS	Variable Name:Deep Incisional SSI – PATOS	Yes; No	NULL = No response
1.10						
142	DWNDINFD	Num	Days from Operation until Deep Incisional SSI Complication	*Days from Operation until Deep Incisional SSI Complication		-99 = Patient did not experience this
						complication at or before 30 days
						post operation
	NORGSPCSSI		Number of Organ/Space SSI Occurrences	*Number of Organ/Space SSI Occurrences		
	ORGSPCSSI		Occurrences Organ Space SSI	Variable Name:Organ/Space SSI	Organ/Space SSI; No Complication	
145	OSSIPATOS	Char	Organ/Space SSI PATOS	Variable Name:Organ/Space SSI – PATOS	Yes; No	NULL = No response
146	DORGSPCSSI		Days from Operation until Organ/Space SSI Complication	*Days from Operation until Organ/Space SSI Complication		-99 = Patient did not experience this
						complication at or before 30 days
						post operation
147	NDEHIS	Num	Number of Wound Disruption Occurrences	*Number of Wound Disruption Occurrences		
	DEHIS		Occurrences Wound Disrupt	Variable Name:Wound Disruption	Wound Disruption: No Complication	
140	DDEHIS		Days from Operation until Wound Disruption Complication	*Days from Operation until Wound Disruption Complication		-99 = Patient did not experience this
173	DDLIND	Nulli	bays nom operation until wound bisruption complication	Days non operation until wound Disruption complication		complication at or before 30 days
						post operation
						posi operation
	NOUPNEUMO		Number of Pneumonia Occurrences	*Number of Pneumonia Occurrences		
	OUPNEUMO	Char		Variable Name:Pneumonia	Pneumonia; No Complication	
151				Variable Name:Pneumonia – PATOS	Yes; No	NULL = No response
151 152	PNAPATOS	Char			100,110	
151		Char Num	Days from Operation until Pneumonia Complication	*Days from Operation until Pneumonia Complication	100,10	-99 = Patient did not experience this
151 152	PNAPATOS					-99 = Patient did not experience this complication at or before 30 days
151 152	PNAPATOS					-99 = Patient did not experience this

			h			
Position #	Variable Name	Data	Variable Label	Search Term in Chapter 4	Variable Options at Entry	Comments
		Туре		Notes: 'Variable Name:' needs to be included in Search Term;		
			-	*Variables not included in Chap 4		
	REINTUB	Char	Occurrences Unplanned Intubation	Variable Name:Unplanned Intubation	Unplanned Intubation; No Complication	
156	DREINTUB	Num	Days from Operation until Unplanned Intubation Complication	*Days from Operation until Unplanned Intubation Complication		-99 = Patient did not experience this
						complication at or before 30 days
						post operation
	NPULEMBOL		Number of Pulmonary Embolism Occurrences	*Number of Pulmonary Embolism Occurrences		
158	PULEMBOL	Char	Occurrences Pulmonary Embolism	Variable Name:Pulmonary Embolism	Pulmonary Embolism; No Complication	
159	DPULEMBOL	Num	Days from Operation until Pulmonary Embolism Complication	*Days from Operation until Pulmonary Embolism Complication		-99 = Patient did not experience this
						complication at or before 30 days
						post operation
	NFAILWEAN		Number of On Ventilator > 48 Hours Occurrences	*Number of On Ventilator > 48 Hours Occurrences		
	FAILWEAN		Occurrences Ventilator > 48Hours	Variable Name:On Ventilator > 48 Hours	On Ventilator greater than 48 Hours; No Complication	5000 SI
	VENTPATOS		On Ventilator > 48 Hours PATOS	Variable Name:On Ventilator > 48 Hours – PATOS	Yes; No	NULL = No response
163	DFAILWEAN	Num	Days from Operation until On Ventilator > 48 Hours Complication	*Days from Operation until On Ventilator > 48 Hours Complication		-99 = Patient did not experience this complication at or before 30 days
						post operation
101		Num		the start (December (Colored Colored C		post operation
164 165	NRENAINSF RENAINSF	Num	Number of Progressive Renal Insufficiency Occurrences	*Number of Progressive Renal Insufficiency Occurrences	Promotive Devel Interfficiency No Complication	
165	RENAINSF	Char	Occurrences Progressive Renal Insufficiency	Variable Name: Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis	Progressive Renal Insufficiency; No Complication	
166	DRENAINSF	k 1	Dava from Operation until Progradius Devel less finites of the first	*Dava from Operation until Programivo Repol Interficiency Compliantian		00 - Dotiont did ant eventies of the
166	DRENAINSF	Num	Days from Operation until Progressive Renal Insufficiency Complication	*Days from Operation until Progressive Renal Insufficiency Complication		-99 = Patient did not experience this complication at or before 30 days
						post operation
107	NORRENAE	Num				posi operation
	NOPRENAFL		Number of Acute Renal Failure Occurrences	*Number of Acute Renal Failure Occurrences		
168	OPRENAFL	Char	Occurrences Acute Renal Fail	Variable Name: Progressive Renal Insufficiency/Acute Renal Failure Requiring Dialysis	Acute Renal Failure; No Complication	
100	DODDENIAEI	Num				00 Defect filles and the second
169	DOPRENAFL	Num	Days from Operation until Acute Renal Failure Complication	*Days from Operation until Acute Renal Failure Complication		-99 = Patient did not experience this
						complication at or before 30 days post operation
						post operation
	NURNINFEC		Number of Urinary Tract infection Occurrences	*Number of Urinary Tract infection Occurrences		
171	URNINFEC		Occurrences Urinary Tract Infection	Variable Name:Urinary Tract Infection	Urinary Tract Infection; No Complication	NUUL N
	UTIPATOS		UTI PATOS	Variable Name:UTI – PATOS	Yes; No	NULL = No response
173	DURNINFEC	Num	Days from Operation until Urinary Tract Infection Complication	*Days from Operation until Urinary Tract Infection Complication		-99 = Patient did not experience this
						complication at or before 30 days post operation
171		Num		***		posi operation
	NCNSCVA		Number of Stroke/CVA Occurrences	*Number of Stroke/CVA Occurrences		
	CNSCVA		CVA/Stroke with neurological deficit	Variable Name:Stroke/Cerebral Vascular Accident (CVA)	Stroke/CVA; No Complication	00 Defect filles and see this
176	DCNSCVA	Num	Days from Operation until Stroke/CVA Complication	*Days from Operation until Stroke/CVA Complication		 -99 = Patient did not experience this complication at or before 30 days post operation
177	NCDARREST	Num	Number of Cardiac Arrest Requiring CPR Occurrences	*Number of Cardiac Arrest Requiring CPR Occurrences		
178	CDARREST		Occurrences Cardiac Arrest Requiring CPR	Variable Name:Intraoperative or Postoperative Cardiac Arrest Requiring CPR	Cardiac Arrest Requiring CPR; No Complication	
178	DCDARREST	Num	Days from Operation until Cardiac Arrest Requiring CPR Complication	*Days from Operation until Cardiac Arrest Requiring CPR Complication	Caldiac Arrest Requiring CFR, No Complication	-99 = Patient did not experience this
179	DCDARREST	Num	Days from Operation until Cardiac Arrest Requiring CFR Complication	Days non Operation until Cardiac Ariest Requiring CFR Complication		complication at or before 30 days
						post operation
180	NCDMI	Num	Number of Myocardial Infarction Occurrences	*Number of Myocardial Infarction Occurrences		poor operation
	CDMI		Occurrences Myocardial Infarction	Variable Name:Intraoperative or Postoperative Myocardial Infarction	Myocardial Infarction; No Complication	
	DCDMI		Days from Operation until Myocardial Infarction Complication	*Days from Operation until Myocardial Infarction Complication	ingeoural interestion, no complication	-99 = Patient did not experience this
.52	202111	Null	says non operation and myocardial infarction complication	Says non operation unit myodardial marchon complication		complication at or before 30 days
						post operation
183	NOTHBLEED	Num	Number of Bleeding Transfusions Occurrences	*Number of Bleeding Transfusions Occurrences	<u> </u>	P == P =
184	OTHBLEED	Char	Occurrences Bleeding Transfusions	Variable Name:Transfusion Intra/Postop (RBC within the First 72 Hrs of Surgery Start Time)	Transfusions/Intraon/Poston: No Complication	
104	UTIBLEED	Char	Coouriences Dieduling Transiusions	vanable warne. mansiusion initia/Fostop (NDC within the First /2 First of Surgery Start Time)	ransiusions/initialop/rostop, No complication	
185	DOTHBLEED	Num	Days from Operation until Bleeding Transfusions Complication	*Days from Operation until Bleeding Transfusions Complication		-99 = Patient did not experience this
105	DOTTIBLEED	Num	Bays nom operation until bleeding mansfusions complication	Days non operation until bleeding mansfusions complication		complication at or before 30 days
						post operation
186	NOTHDVT	Nure	Number of DVT/Thrombophlebitis Occurrences	*Number of DVT/Thrombophlebitis Occurrences		post operation
	OTHDVT		Occurrences DVT/Thrombophlebitis	Variable Name:Vein Thromboshie Beguiring Therapy	DVT Requiring Therapy; No Complication	
	DOTHDVT		Days from Operation until DVT/Thrombophlebitis Complication	*Days from Operation until DVT/Thrombophlebitis Complication	DVT Requiring merapy, No complication	-99 = Patient did not experience this
100		num				complication at or before 30 days post operation
189	NOTHSYSEP	Num	Number of Sepsis Occurrences	*Number of Sepsis Occurrences		
	OTHSYSEP		Occurrences Sepsis	Variable Name:Sepsis	Sepsis; No Complication	
191	SEPSISPATOS	Char		Variable Name:Sepsis – PATOS	Yes; No	NULL = No Response
		Num	Days from Operation until Sepsis Complication	*Days from Operation until Sepsis Complication		-99 = Patient did not experience this
	DOTHSYSEP					
192	DOTHSYSEP	Num				complication at or before 30 days
	DOTHSYSEP	T Call				

Image Type Nones: Variable Name: Applicable Name: A	Position #	Variable Name	Data	Variable Label	Search Term in Chapter 4	Variable Options at Entry	Comments
Image: Section of the Contract Section Sectio							
105 106 No. 2 No.					*Variables not included in Chap 4		
105 106 No. 2 No.	194	OTHSESHOCK	Char	Occurrences Septic Shock		Septic Shock: No Complication	
No. No. <td>195</td> <td>SEPSHOCKPATOS</td> <td>Char</td> <td>Septic Shock PATOS</td> <td></td> <td>Yes; No</td> <td>NULL = No Response</td>	195	SEPSHOCKPATOS	Char	Septic Shock PATOS		Yes; No	NULL = No Response
UP ODE Funct and grant (DB in the second se	196	DOTHSESHOCK	Num	Days from Operation until Septic Shock Complication	*Days from Operation until Septic Shock Complication		
18 Children Car Parts Regress Tot Variable Large Regress Tot Percent Large Regress Tot Percent Large Regress Tot 0 Children Car Children Car Children Percent Large Regress Tot Percent Large Regress Tot 0 Children Children Children Children Percent Large Regress Tot Percent Large Regress Tot 0 Children Children Children Percent Large Regress Tot Percent Large Regress Tot Percent Large Regress Tot 0 Children Children Children Children Percent Large Regress Tot Percent Large Regress Tot 0 Children Children Children Children Percent Large Regress Tot Percent Large Regress Tot 0 Children Children Children Children Percent Large Regress Tot Percent Large Regress Tot 0 Children Children Children Percent Large Regress Tot Percent Large Regress Tot Percent Large Regress Tot 0 Children Children Children Percent Large Regress Tot Percent Large Regress Tot Percent Large Regress Tot 0 Children Children Children Percent Large Regress Tot Percent Large Regress Tot 0 <td>107</td> <td>PODIAG</td> <td>Char</td> <td>Post-on diagnosis (ICD 9)</td> <td>Variable Name:Postonerative Diagnosis (ICD Code)</td> <td></td> <td>Foot of evenesis</td>	107	PODIAG	Char	Post-on diagnosis (ICD 9)	Variable Name:Postonerative Diagnosis (ICD Code)		Foot of evenesis
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since			Char			Yes; No	NULL= No Response
Bit BitLBH/GP Out Set Set Number 1 Notation 1 <t< td=""><td></td><td></td><td>Num</td><td></td><td></td><td></td><td>-99 = Patient did not die at or before 30 days post operation Notes: deaths within 30 days of procedure included only</td></t<>			Num				-99 = Patient did not die at or before 30 days post operation Notes: deaths within 30 days of procedure included only
No. BCCPERATION Out Understand Respondent Variable Name Updates Respondent Variable Name Updates Respondent NULL-No. Respondent 007 BCCPERATION Out Days Into Information Biogenation Incluints Null-No. Respondent Null-No. Respondent 007 BCCPERATION Out Updates Respondent A ILLEND Respondent Null-No. Respondent Null-No. Respondent 007 BCCPERATION Out Updates Respondent A ILLEND Respondent Null-No. Respondent Null-No. Respondent 007 BCCPERATION Out Updates Respondent Null-No. Respondent Null-No. Respondent 008 BCCPERATION Out Updates Respondent Null-No. Respondent Null-No. Respondent 008 BCCPERATION Out Updates Respondent A Null-No. Respondent Null-No. Respondent 019 BCCPERATION Out Updates Respondent A Null-No. Respondent Null-No. Respondent 019 BCCPERATION Null No. Respondent Yande Nethen Updates Respondent Null-No. Respondent 019 BCCPERATION Null No. Respondent Yande Net							
Nome BETORPOINTS Num Description proceedings buildwared Respondents Construction of the Pointed Respondent of the approximation of the Pointed Respondent of the Approximation of the Pointed Respondent of the Approximation of the Approximatin of the Approximatin of the Approximation of the Approx							
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Bandword			Char				
Nome Nome Nome Nome Nome Nome 100 8(0001(0)10) 0ar Japamene Responsion School Nome	208	RETORRELATED	Char	Unplanned Reoperation 1 related to principal operative procedure	Variable Name:Unplanned Reoperation		NULL = No Response
No. Open RC0P(RD01) Open Uppaned Regention 1CD-0 Variable Name Uppaned Regention Null.= No Regonal 10 RC0P(RD01) Open Uppaned Regention 1CD-10 Variable Name Uppaned Regention Variable N							
101 REOPCHILED101 One Unplaned Reoperation 1 (CD-10 Variable Name Unplaned Reoperation 2 Ver. No. NULLANC Reported 112 REOPCHILED101 One Unplaned Reoperation 2 'Days from principal operative procedure to Unplaned Reoperation 2 'Days from principal operative procedure to Unplaned Reoperation 2 'Days from principal operative procedure to Unplaned Reoperation 2 'Days from principal operative procedure to Unplaned Reoperation 2 'Days from principal operative procedure to Unplaned Reoperation 2 'Days from principal operative procedure to Unplaned Reoperation 2 'Days from principal operative procedure to Unplaned Reoperation 2 'Days from principal operative procedure to Unplaned Reoperation 2 'Days from principal operative procedure to Unplaned Reoperation 2 'Days from principal operative procedure to Unplaned Reoperation 2 'Days from principal operative procedure to Unplaned Reoperation 2 'Days from principal operative procedure to Unplaned Reoperation 2 'Days from principal operative procedure to Anys Readmission 1 'Not and the Response and the						Unknown	
111 RECORPATION2 One Unplayment Respectancy Variable Name (hippinged Respectancy) Variable Name (hippinged Respectancy) Vector NULL-No Reported 121 RECORPACIONTS Nin Days from (nincipal) operative procedure to Unplanned Respectancy) Variable Name Unplanned Respectancy) See Patient of the operative Unplanned Respectancy) See Patient of the operative Unplanned Respectancy) See Patient of the operative Unplanned Respectancy) Null = No Respectancy 121 RECORPERELATED One Unplayment Respectancy Variable Name Unplanned Respectancy Null = No Respectancy Null = No Respectancy 121 RECORPERELATED One Unplayment Respectancy Variable Name Unplanned Respectancy Null = No Respectancy 121 RECORPERELATED One Unplayment Respectancy Variable Name Unplanned Respectancy Null = No Respectancy 121 RECORPERELATED One Unplayment Respectancy Variable Name Unplanned Respectancy Yes, No Null = No Response 121 READMODAYTS Name Respectancy Variable Name Unplanned Respectancy Yes, No Null = No Response 121 READMODAYTS Name Respectancy Variable Name Hospital Resoftnission Yes, No Null = No Response 121 READMODAYTS Name Respectancy Variable Name Hospital Resoftnission </td <td>209</td> <td>REOPORICD91</td> <td>Char</td> <td>Unplanned Reoperation 1 ICD-9</td> <td>Variable Name:Unplanned Reoperation</td> <td></td> <td>NULL = No Response</td>	209	REOPORICD91	Char	Unplanned Reoperation 1 ICD-9	Variable Name:Unplanned Reoperation		NULL = No Response
12 RETORPOONS Num Days from principal operative procedure to Unplanned Reoperation 2 -00 - Flore flor	210	REOPOR1ICD101	Char	Unplanned Reoperation 1 ICD-10	Variable Name:Unplanned Reoperation		
Image: Construction of the construction of	211		Char			Yes; No	
P14 RETOR2RELATED Char Unplanned Reoperation 2 related to principal operative procedure Variable Name Unplanned Reoperation Yest No No P15 RECPOR2CD01 Char Unplanned Reoperation 2 LCD-0 Variable Name Unplanned Reoperation No No No P15 RECPOR2CD01 Char Unplanned Reoperation 2 LCD-10 Variable Name Unplanned Reoperation Yest No NuLL = No Response P17 REOPCRACD010 Char Unplanned Reoperation 2 LCD-10 Variable Name Unplanned Reoperation Yest NuLL = No Response P18 REDORDVIS Char Unplanned Reoperation 2 LCD-10 Variable Name Unplanned Reoperation Yest No NuLL = No Response P18 REDORDVIS Char More Star2 unplanned reoperations 2 Variable Name Unplanned Reoperation 2 Yest No NuLL = No Response NuLL = No Response P19 READMSCDATS Nor Days Endormal Readmission 1 Object Norm principal operative procedure to Any Readmission Yest No NULL = No Response P20 UNPLANDEREDAMSCDATS Char Unplanned Readmission 1 Yest No NULL = No Response P21 READMSUSPREASON1<	212	RETOR2PODAYS	Num	Days from principal operative procedure to Unplanned Reoperation 2	*Days from principal operative procedure to Unplanned Reoperation 2		
No. N			Char	Unplanned Reoperation 2 CPT	Variable Name:Unplanned Reoperation		NULL = No Response
P15 REOPOR2ICD11 Char Uptianned Reoperation 2 ICD-10 Variable Name-Uptianned Reoperation NULL = NO Response P15 REOPOR2ICD11 Char Uptianned Reoperation 2 ICD-10 Variable Name-Uptianned Reoperation Yes: No NULL = NO Response P17 REOPERATION3 Char More than 2 uptianned reoperation Variable Name-Uptianned Reoperation Yes: No NULL = NO Response P17 REOPERATION3 Char More than 2 uptianned reoperation Yes: No NULL = NO Response P17 READINFORY3 Null Day from principal operative procedure to Any Readmission 1 Variable Name-Uptianned Reoperation 2 (PC-NO NULL = NO Response P18 READINFORY3 Null Day from principal operative procedure to Any Readmission 1 Variable Name-Hospital Readmission 1 Yes: No NULL = NO Response P21 READINSUSPREASON1 Char Uptianned Respension 1 Variable Name-Hospital Readmission Yes: No NULL = NO Response P22 VIFLNEDPEEDINSEST Char Uptianned Respension 1 Variable Name-Hospital Readmission Yes: No NULL = NO Response P23 READINSUSPREASON1 Char Uptianned Respension 1 Variable Name-Hospital Readmission Yes: No NULL = NO Response P23 READINSUSPREASON1 Char	214	RETOR2RELATED	Char	Unplanned Reoperation 2 related to principal operative procedure	Variable Name:Unplanned Reoperation		NULL = No Response
 Network Network							
116 REOPCR2[CD101 Char Unplaned Reoperation 2 (CD-10 Variable Name-Unplaned Reoperation Yes, No. NULL = No. Response 127 REOPCR2[CD101 Char More than 2 unplaned reoperations Variable Name-Unplaned Reoperation Yes, No. NULL=No. Response 128 READMISSION Char Any Readmission 1 Variable Name-Unplaned Reoperation Yes, No. NULL=No. Response 129 READMISSION Char Any Readmission 1 'Days from principal operative procedure to Any Readmission 1 NULL=No. Response 220 UNPLANNEDREADMISSION Char Unplaned Readmission 1 Variable Name-Hospital Readmission 1 Yes, No. NULL=No. Response 221 READMISSION Char Unplaned Readmission 1 Variable Name-Hospital Readmission Yes, No. NULL = No. Response 222 VENEXNEX Char Unplaned Readmission 1 Variable Name-Hospital Readmission Yes, No. NULL = No. Response 223 READMISUSPREASON1 Char Readmission 1 Variable Name-Hospital Readmission Yes, No. NULL = No. Response 224 READMISUSPREASON1 Char Readmission 1 Variable Name-Hospital Readmission Yes, No. NULL = No. Response 225 Venzione Char Readmission 1 Variable						Unknown	
171 REDPERATION3 Char More than 2 unplanend reoperations Variable Name-Unplaned Reoperation Yes, No NULL-No Response 171 READM/SODAY1 Char More than 2 unplanend reoperations Variable Name-Hospital Readmission 1 Yes, No NulL-No Response 172 READM/SODAY31 Nun Days from principal operative procedure to Any Readmission 1 'Days from principal operative procedure to Any Readmission 1 Yes, No NulL-No Response 202 UNPLANNEDEREDMISSION1 Char Unplanened Readmission 1 Variable Name-Hospital Readmission 1 Yes, No NulL - No Response 212 READM/SUSPREASON1 Char Unplanened Readmission 1 Variable Name-Hospital Readmission 1 Yes, No NulL - No Response 2222 READM/SUSPREASON1 Char More than 2 unplanened reception 2 Variable Name-Hospital Readmission 1 Yes, No NulL - No Response 223 READM/SUSPREASON1 Char Mediana Superited reason 1 Variable Name-Hospital Readmission 1 Yes, No NulL - No Response 224 READM/SUSPREASON1 Char Mediana Superited reason 1 Variable Name-Hospital Readmission 1 Yes, No NulL - No Response 225 READM/SUSPREASON1 Char Mediana Superited reason 1 Variable Name-Hospital Readmission 1 Yes, No NulL - No Response 226 READM/SUSPREASON1 Char Mor	215	REOPOR2ICD91	Char	Unplanned Reoperation 2 ICD-9	Variable Name:Unplanned Reoperation		NULL = No Response
110 READMISSION1 Char Arv Readmission 1 Variable Name-Hospital Readmission 1 Yes; No NULL-No Response 110 READMPOAYS1 Days from principal operative procedure 0 Any Readmission 1 Days from principal operative procedure 0 any Readmission 1 -09 - Patient dd not experience Arr Readmission 1 -09 - Patient dd not experience Arr Readmission 1 NULL = No Response 220 UNPLANEDREADMISSION1 Char Unplanned Readmission 1 Variable Name-Hospital Readmission Yes; No NULL = No Response 221 READMRSUSPREASON1 Char Unplanned Readmission 1 likely related to the principal procedure Variable Name-Hospital Readmission Yes; No NULL = No Response 222 READMSUSPREASON1 Char Unplanned Readmission 1 likely related to the principal procedure Variable Name-Hospital Readmission Yes; No NULL = No Response 222 READMSUSPREASON1 Char Unplanned Readmission 1 likely related to the principal procedure Variable Name-Hospital Readmission Yes; No NULL = No Response 222 READMSUSPREASON1 Char Information and and and and and and and and and an			Char	Unplanned Reoperation 2 ICD-10	Variable Name:Unplanned Reoperation		NULL = No Response
19 READMPODAYS1 Num Days from principal operative procedure to Any Readmission 1 'Days from principal operative procedure to Any Readmission 1 -99 = Patient (dit not experience Ant Readmission 1 120 UNPLANNEDREADMISSION1 Char Unplanned Readmission 1 Variable Name:Hospital Readmission Yes; No NULL = No Response 121 READMSUSPREASON1 Char Unplanned Readmission 1 likely related to the principal procedure Variable Name:Hospital Readmission Yes; No NULL = No Response 1222 READMSUSPREASON1 Char Unplanned Readmission related suspected reason 1 Variable Name:Hospital Readmission Yes; No NULL = No Response 1222 READMSUSPREASON1 Char Readmission related suspected reason 1 Variable Name:Hospital Readmission Signation and Signatin All All All All All All All All All Al			Char				
1 1 Number of the sector is in the intervence of the principal procedure Variable Name/Hospital Readmission Yes: No NULL = No Response 121 READMSUSPREASON1 Char Unplanned Readmission 1 likely related to the principal procedure Variable Name/Hospital Readmission Yes: No NULL = No Response 122 READMSUSPREASON1 Char Readmission related suspected reason 1 Variable Name/Hospital Readmission Yes: No NULL = No Response 122 READMSUSPREASON1 Char Readmission related suspected reason 1 Variable Name/Hospital Readmission Superficial Incisional SSI NULL = No Response 122 READMSUSPREASON1 Char Readmission related suspected reason 1 Variable Name/Hospital Readmission Superficial Incisional SSI NULL = No Response 122 READMSUSPREASON1 Char Readmission related suspected reason 1 Variable Name/Hospital Readmission Superficial Incisional SSI NULL = No Response 124 READMSUSPREASON1 Char Readmission related suspected reason 1 Variable Name/Hospital Readmission Superficial Incisional SSI NULL = No Response 124 READMSUSPREASON1 Char Readmission related suspected reason 1 Variable Name/Hospital Readmission re	218					Yes; No	
21 READMRELATED1 Char Unplanned Readmission 1 likely related to the principal procedure Variable Name:Hospital Readmission Yes; No NULL = No Response 222 READMSUSPREASON1 Char Readmission related suspected reason 1 Variable Name:Hospital Readmission Superficial Incisional SSI Deep Incisional SSI Deep Incisional SSI 223 READMSUSPREASON1 Char Readmission related suspected reason 1 Variable Name:Hospital Readmission Superficial Incisional SSI NULL = No Response 224 READMSUSPREASON1 Char Readmission related suspected reason 1 Variable Name:Hospital Readmission Superficial Incisional SSI NULL = No Response 225 READMSUSPREASON1 Char Readmission related suspected reason 1 Variable Name:Hospital Readmission Superficial Incisional SSI NULL = No Response 226 READMSUSPREASON1 Char Readmission related suspected reason 1 Variable Name:Hospital Readmission Superficial Incisional SSI NULL = No Response 227 READMSUSPREASON1 Char Readmission Variable Name:Hospital Readmission NULL = No Response 228 Readmission Readmission Readmission NULL = No Response Note:Sinpatce SSI <td>219</td> <td>READMPODAYS1</td> <td>Num</td> <td>Days from principal operative procedure to Any Readmission 1</td> <td>*Days from principal operative procedure to Any Readmission 1</td> <td></td> <td></td>	219	READMPODAYS1	Num	Days from principal operative procedure to Any Readmission 1	*Days from principal operative procedure to Any Readmission 1		
READMSUSPREASON1 Char Readmission related suspected reason 1 Variable Name:Hospital Readmission Variable Name:Hospital Readmission SSI Deep Incisional SSI Deep Incisional SSI Deep Incisional SSI Draw Operational SSI Dra	220	UNPLANNEDREADMISSION1	Char	Unplanned Readmission 1	Variable Name:Hospital Readmission	Yes; No	NULL = No Response
Deep Indiatoral SI Organ/Space SSI Wound Disruption Preumonia Unplanned Intubation Pulmonary Embolism On Ventilator > 48 hours Progressive a Fatial Insufficiency Acute Patient Uninary Tract Infection CVA Cardiac Arrest Requiring CPR Myocardial Pranslusion (72h of surgery start time) Bleeding Requiring Translusion (72h of surgery start time) Vein Thrombosis Requiring Therapy Sapais Septis Shock Other (list ICD 9 code)	221	READMRELATED1	Char	Unplanned Readmission 1 likely related to the principal procedure	Variable Name:Hospital Readmission	Yes; No	NULL = No Response
Deep Indiatoral SI Organ/Space SSI Wound Disruption Preumonia Unplanned Intubation Pulmonary Embolism On Ventilator > 48 hours Progressive a Fatial Insufficiency Acute Patient Uninary Tract Infection CVA Cardiac Arrest Requiring CPR Myocardial Pranslusion (72h of surgery start time) Bleeding Requiring Translusion (72h of surgery start time) Vein Thrombosis Requiring Therapy Sapais Septis Shock Other (list ICD 9 code)	222	READMSUSPREASON1	Char	Readmission related suspected reason 1	Variable Name:Hospital Readmission	Superficial Incisional SSI	NULL = No Response
Wound Disruption Pneumonia Pulmonary Embolism Pulmonary Embolism On Venilator > 48 hours Progressive Renal Insufficiency Acute Renal Failure Urinary Tract Infection CVA Cardiac Arrest Requiring CPR Myocaridal Infarction Bleeding Requiring Transfusion (72h of surgery start time) Vein Thrombosis Requiring Therapy Sepsis Septis Shock Other (list ICD 10 code)						Deep Incisional SSI	
Preumonia induction Unplannay Embolism Pulmonary Embolism On Veritiators 48 hours Progressive Renal Insufficiency Acute Renal Failure Urinary Tract Infection CVA Cardiac Arrest Requiring CPR Myocardial Infarction Bileeding Requiring Transfusion (72h of surgery start time) Vein Thrombosis Requiring Therapy Sepsis Septic Shock Other (list ICD 9 code)						Organ/Space SSI	
Unplanned Intubation Pulmonary Embolism On Ventiliator > 48 hours Progressive Renal Insufficiency Acute Renal Failure Urinary Tract Infection CVA Cardiac Arrest Requiring CPR Myocardial Infarction Bleeding Requiring Transfusion (72h of surgery start time) Vein Thrombosis Requiring Therapy Sepsis Septic Shock Other (list ICD 9 code)						Wound Disruption	
Pulmonary Embolism On Vertilator > 48 hours Progressive Renal Insufficiency Acute Renal Failure Urinary Tract Infection CVA Cardiac Arrest Requiring CPR Myocardia Infarction Bleeding Requiring Transfusion (72h of surgery start time) Vein Thrombosis Requiring Therapy Sepsis Septic Shock Other (list ICD 9 code)							
Cn Ventilator > 48 hours Progressive Renal Insufficiency Acute Renal Failure Urinary Tract Infection CVA Cardiac Arrest Requiring CPR Myocardial Infarction Bleeding Requiring Transfusion (72h of surgery start time) Vein Thrombosis Requiring Therapy Sepsis Septic Shock Other (list ICD 9 code) Other (list ICD 9 code)							
Progressive Renal Insufficiency Acute Renal Failure Urinary Tract Infection CVA Cardiac Arrest Requiring CPR Myocardial Infarction Bleeding Requiring Transfusion (72h of surgery start time) Vein Thrombosis Requiring Therapy Sepsis Septic Shock Other (list ICD 9 code) Other (list ICD 9 code)							
Acute Renal Failure Urinary Tract Infection CVA Cardiac Arrest Requiring CPR Myocardial Infarction Bleeding Requiring Transfusion (72h of surgery start time) Vein Thrombosis Requiring Therapy Sepsis Septic Shock Other (list ICD 9 code) Other (list ICD 9 code)							
Urinary Tract Infection CVA Cardiac Arrest Requiring CPR Myocardial Infarction Bleeding Requiring Transfusion (72h of surgery start time) Vein Thrombosis Requiring Therapy Sepsis Septic Shock Other (list ICD 9 code) Other (list ICD 9 to code)			1				
CVA Cardica Carrest Requiring CPR Myocardial Infarction Bleeding Requiring Transfusion (72h of surgery start time) Vein Thrombosis Requiring Therapy Sepsis Septic Shock Other (list ICD 9 code) Other (list ICD 9 code)							
Cardiac Arrest Requiring CPR Myocardial Infarction Bleeding Requiring Transfusion (72h of surgery start time) Vein Thrombosis Requiring Therapy Sepsis Septic Shock Other (list ICD 9 code) Other (list ICD 10 code)			1]
Myocardial Infarction Bleeding Requiring Transfusion (72h of surgery start time) Vein Thrombosis Requiring Therapy Sepsis Septic Shock Other (list ICD 9 code) Other (list ICD 10 code)							
Bleeding Requiring Transfusion (72h of surgery start time) Vein Thrombosis Requiring Therapy Sepsis Septic Shock Other (list ICD 9 code) Other (list ICD 10 code)							
Vein Thrombosis Requiring Therapy Sepsis Septic Shock Other (list ICD 9 code) Other (list ICD 10 code)							
Septic Shock Other (list ICD 9 code) Other (list ICD 10 code)						Vein Thrombosis Requiring Therapy	
Other (list ICD 9 code) Other (list ICD 10 code)			1				
Other (list ICD 10 code)							
			1				

Position #	Variable Name	Data Type	Variable Label	Search Term in Chapter 4 Notes: 'Variable Name:' needs to be included in Search Term; 'Variables not included in Chap 4	Variable Options at Entry	Comments
223	READMUNRELSUSP1	Char	Readmission unrelated suspected reason 1	Variables Not included in Grap 4	Superficial Incisional SSI	NULL = No Response
220		onai		variable Name. Nospital Nedamission	Deep Incisional SSI	NOLE = No Nesponse
					Organ/Space SSI	
					Wound Disruption	
					Pneumonia	
					Unplanned Intubation	
					Pulmonary Embolism	
					On Ventilator > 48 hours	
					Progressive Renal Insufficiency	
					Acute Renal Failure	
					Urinary Tract Infection	
					CVA	
					Cardiac Arrest Requiring CPR	
					Myocardial Infarction	
					Bleeding Requiring Transfusion (72h of surgery start time)	
					Vein Thrombosis Requiring Therapy	
					Sepsis	
		1			Septic Shock	
		1			Other (list ICD 9 code)	
		1				
		1			Other (list ICD 10 code)	
		-			C. diff	
224	READMRELICD91		Readmission related ICD-9 code 1	Variable Name:Hospital Readmission		NULL = No Response
225	READMRELICD101		Readmission related ICD-10 code 1	Variable Name:Hospital Readmission		NULL = No Response
226	READMUNRELICD91	Char	Readmission unrelated ICD-9 code 1	Variable Name:Hospital Readmission		NULL = No Response
227	READMUNRELICD101	Char	Readmission unrelated ICD-10 code 1	Variable Name:Hospital Readmission		NULL = No Response
228	READMISSION2	Char	Any Readmission 2	Variable Name:Hospital Readmission	Yes; No	
229	READMPODAYS2	Num	Days from principal operative procedure to Any Readmission 2	*Days from principal operative procedure to Any Readmission 2		-99 = Patient did not experience Any Readmission 2
230	UNPLANNEDREADMISSION2	Char	Unplanned Readmission 2	Variable Name:Hospital Readmission	Yes;No	NULL = No Response
231	READMRELATED2	Char	Unplanned Readmission 2 likely related to the principal procedure	Variable Name:Hospital Readmission	Yes;No	NULL = No Response
232	READMSUSPREASON2	Char	Readmission related suspected reason 2	Variable Name:Hospital Readmission	See "Readmission related suspected reason 1"	NULL = No Response
232	READMUNRELSUSP2		Readmission unrelated suspected reason 2	Variable Name: Hospital Readmission	See "Readmission unrelated suspected reason 1"	NULL = No Response
	READMONRELSUSP2				See Readmission unrelated suspected reason i	
234			Readmission related ICD-9 code 2	Variable Name:Hospital Readmission		NULL = No Response
235	READMRELICD102		Readmission related ICD-10 code 2	Variable Name:Hospital Readmission		NULL = No Response
236	READMUNRELICD92	Char	Readmission unrelated ICD-9 code 2	Variable Name:Hospital Readmission		NULL = No Response
237	READMUNRELICD102	Char	Readmission unrelated ICD-10 code 2	Variable Name:Hospital Readmission		NULL = No Response
238	READMISSION3	Char	Any Readmission 3	Variable Name: Hospital Readmission	Yes; No	
239	READMPODAYS3	Num	Days from principal operative procedure to Any Readmission 3	*Days from principal operative procedure to Any Readmission 3		-99 = Patient did not experience Any Readmission 3
240	UNPLANNEDREADMISSION3	Char	Unplanned Readmission 3	Variable Name:Hospital Readmission	Yes;No	NULL = No Response
241	READMRELATED3	Char	Unplanned Readmission 3 likely related to the principal procedure	Variable Name:Hospital Readmission	Yes; No	NULL = No Response
242	READMSUSPREASON3	Char	Readmission related suspected reason 3	Variable Name:Hospital Readmission	See "Readmission related suspected reason 1"	NULL = No Response
243	READMUNRELSUSP3		Readmission unrelated suspected reason 3	Variable Name:Hospital Readmission	See "Readmission unrelated suspected reason 1"	NULL = No Response
244	READMRELICD93	Char	Readmission related ICD-9 code 3	Variable Name:Hospital Readmission		NULL = No Response
244	READMRELICD103		Readmission related ICD-9 code 3	Variable Name:Hospital Readmission		NULL = No Response
245	READMUNRELICD93	Char	Readmission unrelated ICD-10 code 3	Variable Name:Hospital Readmission		NULL = No Response
247	READMUNRELICD103	Char	Readmission unrelated ICD-10 code 3	Variable Name:Hospital Readmission	March I.	NULL = No Response
248 249	READMISSION4 READMPODAYS4		Any Readmission 4 Days from principal operative procedure to Any Readmission 4	Variable Name:Hospital Readmission *Days from principal operative procedure to Any Readmission 4	Yes; No	-99 = Patient did not experience Any Readmission 4
250		Char	Upplement Deadwinsign 4	Verietle Nersel Isoritel Deservision	Mari Na	
250 251	UNPLANNEDREADMISSION4 READMRELATED4	Char Char	Unplanned Readmission 4 Unplanned Readmission 4 likely related to the principal procedure	Variable Name:Hospital Readmission Variable Name:Hospital Readmission	Yes; No Yes; No	NULL = No Response NULL = No Response
252	READMSUSPREASON4		Readmission related suspected reason 4	Variable Name:Hospital Readmission	See "Readmission related suspected reason 1"	NULL = No Response
253	READMUNRELSUSP4	Char	Readmission unrelated suspected reason 4	Variable Name:Hospital Readmission	See "Readmission unrelated suspected reason 1"	NULL = No Response
254	READMRELICD94	Char	Readmission related ICD-9 code 4	Variable Name:Hospital Readmission		NULL = No Response
255	READMRELICD104	Char	Readmission related ICD-10 code 4	Variable Name:Hospital Readmission		NULL = No Response
256	READMUNRELICD94	Char	Readmission unrelated ICD-9 code 4	Variable Name:Hospital Readmission		NULL = No Response
257	READMUNRELICD104	Char	Readmission unrelated ICD-10 code 4	Variable Name:Hospital Readmission		NULL = No Response
258	READMISSION5		Any Readmission 5	Variable Name:Hospital Readmission	Yes: No	
259	READMPODAYS5		Days from principal operative procedure to Any Readmission 5	*Days from principal operative procedure to Any Readmission 5	100,100	-99 = Patient did not experience Any Readmission 5
260	UNPLANNEDREADMISSION5	Char	Unplanned Readmission 5	Variable Name:Hospital Readmission	Yes; No	NULL = No Response
261	READMRELATED5		Unplanned Readmission 5 likely related to the principal procedure	Variable Name:Hospital Readmission	Yes; No	NULL = No Response

Position #	Variable Name	Data	Variable Label	Search Term in Chapter 4	Variable Options at Entry	Comments
		Туре		Notes: 'Variable Name:' needs to be included in Search Term;		
				*Variables not included in Chap 4		
62	READMSUSPREASON5	Char	Readmission related suspected reason 5	Variable Name:Hospital Readmission	See "Readmission related suspected reason 1"	NULL = No Response
63	READMUNRELSUSP5	Char	Readmission unrelated suspected reason 5	Variable Name:Hospital Readmission	See "Readmission unrelated suspected reason 1"	NULL = No Response
64	READMRELICD95	Char	Readmission related ICD-9 code 5	Variable Name:Hospital Readmission		NULL = No Response
65	READMRELICD105	Char	Readmission related ICD-10 code 5	Variable Name:Hospital Readmission		NULL = No Response
66	READMUNRELICD95	Char	Readmission unrelated ICD-9 code 5	Variable Name:Hospital Readmission		NULL = No Response
67	READMUNRELICD105	Char	Readmission unrelated ICD-10 code 5	Variable Name:Hospital Readmission		NULL = No Response
268	WOUND_CLOSURE	Char	Surgical wound closure	Variable Name:Surgical Wound(s) Closure	All layers of incision (deep and superficial) fully closed	NULL=No Response
				Only deep layers closed; superficial left open	·	
					No layers of incision are surgically closed	
69	PODIAG_OTHER	Char	Other postoperative occurrence(ICD 9)	Variable Name: Other Postoperative Occurrence (ICD Code)		NULL=No Response
70	PODIAG_OTHER10	Char	Other postoperative occurrence(ICD 10)	Variable Name: Other Postoperative Occurrence (ICD Code)		NULL=No Response
71	ANESTHES_OTHER	Char	Additional anesthesia technique	Variable Name:Additional Anesthesia Technique(s)	General	NULL = No Response
					Epidural	
					Spinal	
					Regional	
					Local	
					Monitored Anesthesia Care/IV Sedation	
					Other	
72	OTHCDIFF	Char	Occurrences Clostridium Difficile (C.diff) Colitis	Variable Name: Postoperative Clostridium Difficile (C.diff) Colitis	No Complication; C. diff	
73	NOTHCDIFF	Num	Number of C. diff Occurrences	*Number of C. diff Colitis Occurrences		
74	DOTHCDIFF	Num	Days from operation until C.diff Complication	*Days from operation till C. diff Colitis Complication		-99=Patient did not experience
						complication at or before 30 day post operations





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